- C. J., of Miss.—Unless the hose, which you propose to use as a siphon has enough rigidity to resist the atmospheric pressure, its walls will collapse. A metal pipe would be better. You might, however, prevent collapse in the hose by the use of coiled wire on the interior. There is no doubt that you can drain the land you speak of, by the use of a siphon, extended over the levee, the hight of which is only fifteen feet, and with one leg of the siphon six feet longer than the other. It is probably the best and cheapest plan you can use.
- J. J. F., of Texas.—Your plan of filling the space between the "Your \$50 Foot Lathes are worth \$75." Good news for all. outer and inner walls of safes with carbonic acid, instead of the ordinary $\,$ filling, would not, as you suppose, prevent the application of the oxi-hydrogen blow pipe to the penetration of the outer or burglar-proof wall. The plan of putting materials into separate receptacles, connected by fusible plugs, so that when heated they should come in contact, and generate carbonie acid gas, for the protection of the contents of safes, is also, in our opinion, an impracticable scheme.
- G.T.B., of Mass.-We regard the habitual use of any laxative as bad, unless the state of the system imperatively demands it. The latter point can only be determined by a skillful physician. The extensive use of aperient medicines, is, we think, entirely unnecessary. The result aimedat may, in most cases, be secured in a more rational way namely proper attention to diet, exercise, and the general laws of health-
- J. L. C., of Pa.—It is perfectly practicable to draw water to the hight of eighteen feet through a pipe one and one fourth inches in diameter, and seventy-five feet long, with a common small cast-iron pump. The tarnish of a silver watch is nothing extraordinary. The effect is due to sulphurous gases. The surface first turns a brownish yellow, wnich willunless it be cleaned, deepen to a dirty black.
- D. M., of Tenn.—Short-hand writing was known to the ancients. The short hand of the Romans was called "Tironian Notes," named it is supposed after Tiro, to whom the invention is credited. Manuscripts written in this hand date back as far as the seventh century. It is needless to say that it does not compare with the elegant and rapid modern systems of phonography.
- C. L., of R. I.—"Oil of brick" is a name given by all chemists to empyreumatic oil, prepared by soaking bricks in oil, heating them to a high temperature, and condensing the vapors. It is used by lapidaries as a vehicle for the emery by which stones are sawn and out.
- T. H. S., of Ky.—The best way to coat small brass articles with tin is to boil them in a solution of cream tartar, containing scraps of block tin. If the articles are not finished after casting, they must be scaled with nitric acid, thoroughly washed, first in water, and next in water containing a potash, and afterward dried off in sawdust.
- G. H., of Va.—Gas meters are tested at a fixed standard temperature, so that the volume they p is at each oscillation of the bellows is a constant. It is a mistake for a consumer to place a meter in a hot place, as the expansion of the gas will increase his bills.
- D. E. P., of N. J.-Where fire insurance companies require the party walls of frame buildings to be bricked in, and two houses are placed together, the bricking in of one wall will not answer the require ment. Each wall must be bricked.
- R. H. I., of Pa.—Your opponent is right. The word plank, in architecture, has a definite technical meaning. It is defined as a board exceeding nine inches in width. It is, however, commonly used by builders without regard to wieth.
- E G S of -—.—We do not believe a hair dye exists that is really efficacious in coloring the hair, that does not contain either lead or some other mineral poison.

Business and Lersonal.

- The Charge for Insertion under this head is One Dollar a Line. If the Notice exceed Four Lines. One Dollar and a Half per line will be charged.
- The paper that meets the eye of manufacturers throughout the United States-Boston Bulletin, \$400 a year. Advertisements 17c. a line.
- A New Waltham Watch, made especially for Railroad Men and Engineers, is fully described in Howard & Co.'s Price List of Waltham Watches. Every one interested should send for a copy, which will be mailed to any address free. Address Howard & Co., 785 Broadway, N.Y.
- Our Windmill pumps water for railroads, country and city buildings, hotels, stock fields, drainage, and irrigation. Self-regulating, durable, and well tested. Con. Windmill Co., 5 College Place, New York,
- The Entire Right of the best Wrench ever patented for sale For drawings address J. F. Ronan, 36 Orchard st., Boston, Mass.
- For the neatest, most durable, and cheapest curtain holder now in use; also, relative to prices, agencies, etc., address Yount & Keeports,
- For Sale—The entire right of Parsons' Patent Tool Adjuster for Lathes. Drawings and description sent on application. Address C. H. Standish, New Haven, Conn.
- Upright Forge Hammers, improved Drop Presses. Send for circular. Charles Merr. 11 & Sons, 556 Grand st., New York.
- Send 50c. for silver-plated sample (free by mail) of "The Safety Shutter Bow." It holds the shutters securely, at various bows, and in such a way that they cannot be opened from the outside. Agents wanted. J. Pusey, 2,210 Brandywine street, Philadelphia, Pa.
- Cotton Compresses, Gove's Patent, for shipping and plantation use. Equal to hydraulics. Built to order by John H. Gove, Lynn, Mass.
- Wanted Immediately-New or 2d-hand slotting machine, to slot not less than 16 inches. Address, with full description and price, Fulton Iron and Engine Works, Detroit, Mich.
- Wanted—A partner, with Capital, to in general utility. Address box 139, Staunton, Va.
- Send prices of Spoke Planer, Hub Mortising Mach ne, and Corn Mill to S. C. Talmadge, Monticello, Jasper Co., Ga.
- Correspondence solicited with parties having drills suitable for tunneling, driven by power. H. C. Freeman, La Salle, Ill.
- Manufacturers of self-regulating wind mills, please send cir-
- culars to J. S. McClellan, Urbana, Ohio. Manufacturers of Carriages, Buggies, and Wagons, send de-
- scriptive price list to T. T. Edmunds, Columbus, Ga. Catlin's Patent Self-closing Barrel Filler for filling packages with liquids of any kind. See other advertisement, and address, for cir-
- Rawhide Sash Cord has no equal for heavy w ndows or dumbwaiters. Makes the very best round belting. Darrow M'f'g Co., Bristol,Ct.

cular, S. C. Catlin, Cleveland. Ohio.

- Dickinson's Patent Shaped Carbon Points and adjustable holder for dressing emery wheels, grindstones, etc. See Scientific Ameri-
- can, July 24th, and Nov. 20, 1869. 64 Nassau st., New York. Peck's patent drop press. Milo Peck & Co., New Haven, Ct.
- Stationary Engine and Boiler, 2d-hand, in first-rate order, cylinder 16x24. For sale cheap. Address Howard Iron Works, Buffalo, N.Y.

- Bruises, cuts, & burns. 50c. by mail. Try it. Ward & Co., Skaneateles, N. Y.
- Japanese Paper Ware—Spitoons, wash basins, pails, milk pans, etc. Perfectly water-proof, and will not break or rust. Send for circulars. Jennings Brothers, 352 Pearl st., New York.
- Pictures for the World.—Prang's latest publications: "Wild Flowers," "Water Lilies," "Chas. Dickens," for sale everywhere.
- At your door. Catalogues Free. N. H. Baldwin, Laconia, N. H.
- Foundery and Machine Shop for sale, with fine lot of patterns. Is doing a good business; excellent location for general jobbing, and for m'f'g agricultural implements. Address S. Moore & Bro., St. Peter, Minn.
- Patent Water-proof Building Paper for Carpet for halls and Neil, Irving & Rich, Patentees, Elwood, Atlantic Co., N.J., or 59 Duane st., New York, 520 Commerce st., Philadelphia, Pa.
- The Best Hand Shears and Punches for metal work, as well as the latest improved lathes, and other machinists' tools, from entirely new patterns, are manufactured by L. W. Pond, Worcester, Mass. Office, 98 Liberty st., New York.
- Wm. Roberts & Co., Designers and Engravers on Wood, 36 Beekman st., New York, would respectfully announce that they are now prepared to receive orders from Manufacturers, and others, for engraving of machinery, views of stores, factories, trade marks, etc., etc.
- Machinists and others using Fine Tools, send for illustrated catalogue. Goodnow & Wightman, 23 Cornhill, Boston.
- Temped Steel Spiral Springs for machinists and manufacturers. John Chatillon, 91 and 93 Cliff st., New York.
- One 60-Horse Locomotive Boiler, used 5 mos., \$1,200. Ma chinery from two 500-tun propellers, and two Martin boilers very low Wm. D. Andrews & Bro., 414 Water st., New York.
- Kidder's Pastilles.—A sure relief for Asthma. Price 40 cents by mail. Stowell & Co., Charlestown, Mass.
- For solid wrought-iron beams, etc., see advertisement. Address Union Iron Mills, Pittsburgh, Pa, for lithograph, etc.
- Keuffel & Esser,71 Nassau st., N.Y., the best place to get 1st-class Drawing Materials, Swiss Instruments, and Rubber Triangles and Curves.
- For tinmans' tools, presses, etc., apply to Mays & Bliss, Plymouth, st., near Adams st., Brooklyn, N. Y
- ♦lynn's Anti-Incrustator for Steam Boiler—The only reliable preventative. No foaming, and does not attack metals of boiler. Liberal terms to Agents. C. D. Fredricks, 587 Broadway, New York.
- To ascertain where there will be a demand for new machinery or manufacturers' supplies read Boston Commercial Bulletin's manufacturing news of the United States. Terms \$4.00 a year.
- Cold Rolled—Shafting, piston rods, pump rods, Coll ns pat.double compression couplings, manufactured by Jones & Laughlins, Pittsburgh Pa For mining, wrecking, pumping, drainage, and irrigating machinery, see advertisement of Andrews' Patents in another column
- It saves its Cost every sixty days-Mitchell's Combination Cooking Stove. Seud for circular. R. B. Mitchell, Chicego, Ill.

Official List of Latents.

Issued by the United States Patent Office.

FOR THE WEEK ENDING July 26, 1870.

Reported Officially for the Scientific American

	SCHEDULE OF PATENT OFFICE FEES	
	On each caveat. On filing each application for a Patent (seventeen years)	.\$ 10
	On filing each application for a Patent (seventeen years)	*15
i	On issuing each original Patent. • appeal to Commissioner of Patents. On application for Reissue	. \$20
	on appeal to Commissioner of Patents	120
	On application for Reissue	230
	On application for Extension of Patent On granting the Extension.	\$50
	On granting the Extension	. 85I
.	On filing a Disclaimer	.\$10
	On an application for Design (three and a half years)	\$10
	On an application for Design (seven years). On an application for Design (fourteen years). In addition to which there are some small revenue-stamp taxes. Reside	≸10
'	On an application for Design (fourteen Vears)	\$30
	In addition to which there are some small revenue stamp taxes. Reside	nts
	of Canada and Nova scotia nay \$500 on application.	
	of Canadaand Nova scotia pay \$500 on application.	

105,619.—PAPER FRUIT BASKET.—Alfred Adams, Chagrin

- 105,619.—PAPER FRUIT BASKET.—Alfred Adams, Chagrin Falls, and Joseph F. Jewett, Cincinnati, Ohio.
 105,620.—CIGAR MACHINE.—Julian Allen and John Fanning, Brooklyn, N. Y. assignors to the American Cigar Machine Company, New York City.
 105,621.—Seld Planter.—Prudden Alling, Norwalk, Ohio.
 105,622.—APPARATUS FOR REDUCING WOOD TO PULP.—(fustavus Ames, New York City, assignor to himself and William H. Cilley, Northfield, N. H.
 105,623.—ADJUSTABLE DOOR SILL.—Maurice Armstrong, Giserd III
- Girard, Ill. 105,624.—CHIMNEY COWL.—Christian W. Bache, Philadelphia, Pa. 105.625.—Telegraph Insulator.—William W. Baldwin,
- Cleveland, Ohio. 105,626.—Steam Generator.—Nelson H. Barbour, New York City. Antedated July 19, 1870.
 105,627.—Machinery for Cutting Wax into Sheets.—
- W. F. Barnes (assignor to himself and Susan H. Clark), Rockford, Ill. 105,628.—NEEDLE THREADER.—Nelson Barnum, La Porte,
- Ind.
 105,629.—PRUNING SHEARS.—H. W. Black. Cecilton, Md., assignor to himself and E. T. Evans, Middletown, Del.
 105,630.—SULKY CULTIVATOR.—N. G. Blauser, Etna, Ohio.
 105,631.—SEWING MACHINE.—Thomas Bletcher (assignor to himself and William Riddell), London, England. Antecated July 19
 1870.
- 1870, 105,632.—Power Press.—E. W. Bliss (assignor to Mays, Bliss & Co.), Brooklyn, N. Y. 105,633.—CUTTING ASHLARS.—William Boulton, Tompkinsville, Staten Island, N. Y. 105.634.—COMPOUND FOR MANUFACTURE OF PAINTS.—A. H.
- Bourne, Fort Scott, Kansas. Antedated June 9, 1870. 105.635. RAILWAY CAR STARTER.—C. B. Broadwell, New Orleans, La. 105,636.—Spring Bed Bottom.—Mortimer Cahill, Kalama-
- zoo, Mich. Antedated July 14, 1870.

 105,637.—Design Die For Ornamenting.—B.F. Calley, Saugus, Mass. 105,638.—GAGE FOR PRINTING PRESSES.—Andrew Campbell,
- Brooklyn, N. Y.
 105.639.—Sheep Shears.—Daniel Campbell, El zabeth, N. J. assignor to Henry Seymour & Co., New York city.

 105,640.—STEAM HEATER.—B. F. Campbell and Charles
- Whitter, Boston, Mass.

 105,641.—RECEPTACLE FOR MEASURING OUT SHOT.—E. C. Carleton (assignor to William Stewart & Co.), Port fluron, Mich.
- 105,642.—STEAM GENERATOR.—John Carroll, Detroit, Mich.

- Artificial Skin, absolutely water-proof. Applied immediately. 105.643.—HULLING MACHINE.—J. F. Carver (assignor to
 - 105,645.—HULLING MACHINE.—J. E. Carver (assignor to H. T. Pratt and J. C. Alden), Bridgewater, Mass. 105,644.—LAMP.—David Challinor, Birmingham, Pa. 105,645.—Toy Money Box.—J. H. Chappell, Brooklyn, N. Y. 105,646.—Washing Machine.—W. B. Cheeseman, Winona,
 - 105 647.—Sawing Machine.—M. N. Clark, Harrison City,
 - 105.648.—WATER PROOF CEMENT.—T. S. Clark, Charlestown,
 - 105,649.—SAD IRON.—John Conner, Richmond, Ind. Ante-
 - 105,650.—WASHING MACHINE.—Emanuel Cool and Sabisea Cool. Buckhannan, West Va. 105,651.—Rein Holder.—W. H. Cooper, Glover, Vt. 105,652.—CHURN.—W. H. Curtin, Clement, and William Lam:
 - mers, Breese, Ill. 105.653.—RELAY MAGNET.—L. C. A. J. G. D'Arlincourt, Paris,
- stairways, shoe stiffening, walls, ceilings, and roofs, manufactured by Mc 105.654.—ADJUSTABLE REEL POST FOR HARVESTERS.—J. W.

 - 105.654.—ADJUSTABLE REED 1021
 Davis, Dubin, Ohio.
 105.655.—EGG BEATER.—G. K. Dearborn, Pawtucket, assignor to Timothy Earle, Smithfield, R. I.
 105.656.—CRAMP HOOK FOR TELEGRAPHIC WIRE INSULATORS.—W. H. Dechant (assignor to David Brooks), Philadelphia, Pa.
 105.657.—PLANING AND MOLDING MACHINE.—Frank Doug las, Norwich Coun.
 - 105,658.—WOOD PAVEMENT.—Henry Dowson, Springfield, 105.659.—Maching for Crushing Mineral and other
 - HARD SUBSTANCES.—D. C. Ebaugh, Charleston, S. C. 105,660.—DEVICE FOR PREVENTING PLOWS FROM CHOKING.
 —W. M. Eccles, St. Louis, Mo. 105,661.—CARPET "UNDERLIE".—Nelson Edwards, Jericho,
 - 105,662.—FARM GATE.—G. J. Fiedler, Danby, Ill. 105,663. - Electro-Magnetic Motor.—Louis Finger, Cambridge, Mass.
 105,664.—Electro-Magnetic Apparatus for Moving Pan-

 - 105,064.—ELECTRO-MAGNETIC APPARATUS FOR MOVING PAN-ORAMAS.—Louis Finger, Cambridge, Mass. 105,665.—MOVABLE SCREEN FOR PHOTOGAPHERS.—E. J Foss, Cambridge, Mass. Antedated Janu-Ty 26, 1870. 105,666.—DEPURATOR—S. C. Frink, Indianapolis, Ind. 105.657.—FLOUR SIFTER.—George Gessert, Edwardsville, Ill. 105,668.—MACHINE FOR ROLLING PLOW BEAMS.—William-Gilman, Ottawa, Ill.
 - Gilman, Ottawa, Ill. 105,669.—VAPOR BURNER.—L. A. Gouch, Yonkers, N. Y.
 - 105.670. -- MANUFACTURE OF SOAP. -- Louis Groux, New York 105,671.—BOOT JACK AND SPUR.—Timothy Gunn, Hamilton
 - county Ind. 105,672.—COAL STOVE.—Joseph Hackett, Louisville, Ky.
 - 105,673.—PLOW.—J. D. Hall (assignor to William Kingsworth); Canton, Onio. 105.674.—WAGON HUB.—J. D. Ham (assignor to himself, Eli
 - McCroan, and W. A. Wilkins), Bethany, Ga. 105,675.—BOLT.—Mathew Harbster (assignor to Harbster Brothers & Co.) Reading, Pa. 105,676.—School Seat.—C. G. Harrington and David Mills,
 - Northville, ich. 105,677.— Chair and Lounge.—M. P. Harley, Philadelphia,
 - 105.678.—Oven or Stove for Heating the Blast of Blast ACRS.-J. M. Hartman, Philadelphia, Pa. assignor to Geor 105,67J.—MODE OF ATTACHING HOLD BACK RINGS TO
 - 105,67J.—MODE OF ATTACHING HOLD BACK RINGS TO HAMES.—W. B. Hayden, Columbus, Ohio. 105,680.—HORSE POWER.—J. R. Hedges, Glenwood, assignor to himself and Valentine & Sparks, Buffalo, N. Y. 105,681.—CIGAR BOX.—Eugen Henkel, North Scituate, R. I. 105,682.—WINDLASS.—Alonzo Hitchcock, New York city. 105,683.—OIL STILL.—John Hofferberth, Paltimore. Md. 105.684.—DUMPING WAGON.—Britain Holmes Buffalo, N. Y. 105,685.—Steam Gage.—J. P. Holt, Cleveland, Ohio. 105,656.—MITERING MACHINE.—John Holzberger, Newark, N. J.

 - 105,687.—Glove.—D. S. Hulett, Gloversville, N. Y.

 - 105,687.—GLOVE.—D. S. Hulett, Gloversville, N. Y.
 105,688.—APPARATUS FOR REMOVING OIL FROM SEEDS,
 Meal, etc.—E.S. Hutchinson, Baltimore, Md.
 105,689.—Railroad Car Journal Box.—Charles Ihrig, Jersey City, N. J.
 105,690.—Grain Drilling Machine.—Joseph Ingels, Milton, Ind.
 105,691.—Padlock.—Joseph Ingels, Milton, Ind.
 105,692.—Lambrequin.—H. M. Johnston, New York city.
 Antedated July 11, 1870.

 - Antedated July 11, 1870. 105 693.—LAMBREQUIN.—H. M. Johnston, New York city Aniedated July 11, 1870.
 105,694.—WATER WHEEL.—G. H. Jones, Rose, N. Y.
 - 105,695.—Boxing for Covering the Shafting of Ma-CHINERY—M. R. JOUES, DATICH, WIS. 105,696.—UNIVERSAL SHAFT COUPLING.—M. A. Keller, Lit-
 - tlestown, Pa. 105,697.—Compound Switch for Electric Batteries.— Jerome Kidder, New York city. 105.698.—WATER WHEEL.—Alfred Kneass, Northumberland,
 - 105,699.—METALLIC RAILWAY CAR.—B. J. La Mothe, New York city. 105,700.—Trace Supporting Stud.—Josiah Letchworth,
 - Buffalo, N. Y. 105,701.—Combined Hobby Horse and Carriage Motor. John Liming, Philadelphia, Pa. 105,702.—Corn Planter.—W. H. Little, Prairic Du Chien,
 - Wis. 105,703.—CORN AND SEED PLANTER.—Wilber C. Lockwood,
 - Spring Mills, Mich. 105,704.—CROSS-CUT SAW.—Peter Longwell, Poplar, Ohio. 105,705.—DEVICE FOR PREVENTING THE UNCOUPLING OF CLUTCHES IN SPINNING MULES.—Hezekiah Macon and Joshua Hunt Providence, R. I.
 - 105,706.—Car Coupling.—Malancthon B. Malott, Richmond, 105,707.—Wood Pavement.—Duncan McKenzie, Brooklyn,
 - 105,708.—ROTARY ENGINE. Edwin D. Mead, Shortsville,
 - 105.709.—Grain Dryer. Robert Milburn and Thomas Browning, No. 76 Church Lane, Whitechapel, Great Britain.

 105,710.—Padlock.—D. K. Miller, Reading, Pa. Antedated July 22, 1870.

 105,711.—Grinder for Cleaning Castings.—George Miller,
 - Providence, R. I. 105,712.—WATER WHEEL.—George Miller, Providence, R. 1. 105.713.—TAP-NOZZLE FOR CANS.—Herman Miller, New York
 - 105.714.—METALLIC STANDARD FOR WAGON BOXES.—Ed-
 - ward Milner, Marquette, Mich.

 105,715.—ATTACHMENT FOR SEWING MACHINE.—Schamu M.

 Moschcowitz, New York city.

 105,716.—CORN HARVESTER.—Nelson Newman, Springfield,
 - 105,717.—Adding Machine.—Nels Ockerlund, New York
 - 105,718.—REED MUSICAL INSTRUMENT.—Isaac T. Packard, Chicago, Itl. 105,719.—Planking Set.—E. H. Parker, Bucksport, Me.
 - Antestated July 18, 1876.

 105,720.—TREATING AND PRESERVING GRAIN IN BULK.—Charles F. Parrott (assignor to himself and John F. Kohler), New York
 - 105,721.—Tablet Locket for Photographs, etc.—G. W Pitcher, Brooklyn, N. Y.
 105,922.—Horse Hay Fork.—H. • Porter, Grand Rapids,
 - Mich.
 105,723.—HAY CARRIER.—T. J. Powell, Naples, N. Y., assignor to George Smith, Providence, R. I., and J. C. DeLang, Detroit, Mich. 105,724.—Horse Power.—Robert Quinn, Whitefield, Miss. 105,725.—Floating Tide Dock.—William Rickard (assignor to himself and E. K. Meigs), Jersey City, N. J.
 - 105,726.—Music-Leaf Turner.—E. B. Robinson, Portland

105,727.—MATCH STICK.—John K. Robinson, Middlebury, Ohio. 105,728.—Engine for Separating Fiber from Husks of COTTON SEED.—Thomas Rose and Robert Emerson Gibson, Earlstown, England. 105,729.—Process for Separating the Fiber from the HUSK IN COTTON-COATED SEEDS.—Thomas Rose and R. E. Gibt Farlstown, England. 105,730.—LIFE-PRESERVING SKIRT.—Sarah E. Saul, Brook-191, N. Y. Antedated July 14, 1870.

105.731.—TABLE CASTER.—Daniel Sherwood, E. P. Woods, and George D. Dudley (assignors to Woods, Sherwood & Co.), Lowell, Mass. Mass. 105,732.—TABLE CASTER.—Daniel Sherwood and George D. Dudley (assignors to Woods, Sherwood & Co.). Lowell, Mass. 105,733.—Herse Hay Rake.—A. J. Shunk, Des Moines, 105,734.—Side Saddle.—Fenwick Smith, Austin, Texas. 105,735.—AUTOMATIC GATE.—Pratt A. Spicer and Montgom-Croseman Marshall Mich ery Crossman, Marshall, Mich. 105,736.—RIFLED CANNON.—A. C. Stimers, Castleton, N. Y. Antedated July 22, 1870.

105,737.—HEATING STOVE.—Carl L. Svensson (assignor to J. Carl L. Start and Carl L. Svenskon (assignor to J. Carl L. Svenskon). Q.C. Searle), Topeka, Kansas. Anteclated July 21, 1870. 105,738.—HEATING FURNACE.—William A. Sweet, Syracuse, 105,739.—Velocipede.—Ephraim Tarbox, Charlestown, Mass. 105,740.—FARMERS' BOILER.—L. W. Thickins, Batavia, Ill., assignor to David R. Sperry.
105,741.—SEWING MACHINE.—Cyrus B. True, Boston, Mass. 105.742.—Dish-Washing Machine. — Sophia S. Tupper, Clurchville, N. Y.
105,743.—HINGE.—S. D. Van Pelt, Anderson, Ind. 105,744.—Hollow Augur.—Isaac H. Van Wie, Clarksville, 105,745.—CULTIVATOR.—Charles L. Waffle, Sharon Center, Ohio. 105,746.—Cooking Stove.—Benjamin F. Warren, Fishkill 105,747.—FURNACE FOR REBURNING BONE BLACK AND RE DUCING ORES.—Adam Weher, New York city.

105,748.—STOVE LEG.—Frank Whalen, Ballston Spa, N. Y. 105,749.—LAND ROLLER.—Elisha Whitcomb and D. A Gunn Waterville, Ohio.
105.750.—Lubricator.—John B. Wickersham, Philadelphia Pa. Antedated July 11, 1870. 105.751.—Сники.—Milton Jones Wikoff, Stout's Postoffice Ohio. 105.752.—MITER BOX.—E. M. Wilcox, Bloomer, Wis 105,753.—Safety-Guard for Railway Cars.—J. A. Wilkin son. Wilson, N. Y.
105,754.—RAILWAY CROSSING.—R. P. Williams, Great George Street, Westminster, England. Patented in England, Feb. 24, 1869.
105,755.—METALLIC PLATE SCREEN FOR SCREENING PAPER Pulp.—A. St. C. Winchester (assignor to himself and J. S. Parsons) Boston, Mass. 5.756.—GAS APPARATUS FOR RAILROAD CARS, ETC.—J. S. Wood (assignor to himself and John J. Carberry), Philadelphia, Pa. 105,757.—GAS APPARATUS FOR RAILROAD CARS, ETC.—Joseph S. Wood (assignor to himself and John J. Carberry), Philadelphia, Pa. 105,758.—FOLDING BUGGY-SEAL.—Thomas H. Wood, New York city.

105,759.—PREPARING RAWHIDE FOR USE IN CHAIR SEATS.

—B. F. Wright, Charlestown, and John Rowe, Jr., Wilmington, Mass., assignors of three-fifths of their right to S. H. Woodbury, W. T. Gray, and C. H. Drew. 105,760.—Boring and Mortising Machine.—S. M. Wright, Athens, Ohio. 105,761.—FOLDING COUNTER STOOL.—John L. Young, New York etty.

105.762.—LANTERN.—McClintock Young, Frederick, Md.

105.763.—REFRIGERATOR.—Ignazio Allegretti, Philadelphia, 105,764.—VENT FOR CASKS. — William Ascough, Buffalo, 105,765.—Traveling Belt Stop for Machinery.—Thomas E. Baden, Washington, D. C.

105,766.—BOX SCRAPER.—J. R. Bailey (assignor to himself and S. A. Bailey), Woonsocket, R. I.

105,767.—BENCH PLANE.—J. R. Bailey (assignor to himself and S. A. Bailey), Woonsocket, R. I.

105,768.—GAS BURNER.—J. F. Barker, Springfield, Mass. 105,769.—Apparatus for Immersing Shingles and other ARTICLES IN LIQUIDS.—Caleb Bates, Kingston, Mass. 105,770.—COMBINED HARROW AND SHOVEL CULTIVATOR.— A. B. Baum, Grantville, Pa. 105,771.—BEDSTEAD FASTENING.—John Benjamin, Naples, 105,772.—Automatic Fan.—George H. Briggs, Montgomery, 105.773.—Platform for Stoves. — Clark Brownell, Troy, 105,774.—Machine for Flocking Wall Paper, Show Cards ETC.-H. W. Bulkley, New York city.

105,775.—HARROW.-W. J. Burdick, Alfred, N. Y., assignor to himself and J. E. Morehesse. 105,776.—Liquor Pump.—Martin Cavanaugh, Philadelphia, 105,777.—Scissors Sharpening Attachment for Sewing Machines.—G. T. Chattaway, Brooklyn, N. Y. 105,778.—Spool of Thread for Sewing-Machine Shuttles -D. M. Church (assignor to himself and Timothy Merrick), Holyoke Mass. 105,779.—Culinary Vessel.—Emma Clark, Buffalo, N. Y. 105,780.—Organ, Melodeon, etc.—H. A. Clarke, Philadel-105,781.—LAWN MOWER.—Thos. Coldwell and G. L. Chadborn, Nowburg, N. Y.

105,782.—WATER CLOSET.—J. M. Davis (assignor to himself and J. C. Grannon), Cincinnati, Ohio.

105,783.—ALCOHOL AND SPIRIT STILL.—Joseph Dawson, Alexandria, Va. 105,784.—Corn-harvester Cutter.—J. J. De Freitas, Spring-105,764.—COLA-MARTESTAN OF THE STANDARD OF T Sash Lock.—G. W. Dubuison, Norwich, Conn. 105,788.—RECTIFYING WHISKY, ETC.—Henry Fake, Brooklyn, assignor to himself and C. A. Todd, New York city.
105,789.—SEAT-FASTENING FOR CARRIAGES.—J. H. Fellows, Alba, Pa. 105,790.—MANUFACTURE OF STRAW & OTHER PAPER BOARD. -B. F. Field, Beloit, Wis. 165,791.—RAILWAY CAR COUPLING.—J. C. Fisher and W. E. Kittridge, Milwaukee, Wis. 105,792.—Chameleon Whirligie.—Ludwig Ottmar Franke, 105,793.—CARRIAGE AXLE.—Matthew Ross Freeman, Macon, 105,794.—DISH FASTENER.—Christian R. Freet, Upper Stras-105,795.—ARGAND GAS BURNER.—Jim B. Fuller, Norwich, 105,796.—ROTARY ENGINE.—William M. Fuller, New York 105,797.—BOTTLE STOPPER.—William H. Gibbs, Cincinnati, Onto. 105,798.—Bedstead Fastening.—Alexander Grillet, Philadelphia, Pa.

105,799.—Gun Lock.—Lewis Hailer (assignor to W.C. Dodge),
Washington, D. C.

105,800.—Lock Spindle.—J. L. Hall, Cincinnati, Ohio.

Scientific American. 105,806.—FIREPLACE.—A. B. Johnson, Washington, Ind. 105,807.—Hopper for Mills and Grain Drills.—R. P. Johnson, Griffin, Ga. 105,808.—CASE FOR TURBINE WATER WHEELS.—J. O. Joyce, Dayton, Ohio.

105,809.—Composition for "Encaustic" Painting.—W. H. F. Kchrwieder, Philadelphia, Pa.

105,810.—DRILL FOR SEED PLANTERS.—J. F. Keller (assignor to himself and Wm. Updegraff), Hagerstown, Md.

105,811.—FERTILIZER ATTACHMENT TO SEEDING MACHINES. John F. Keller (assignor to himself and William Updegraff), Hagerstown, Md.

105,812.—SELF-ACTING MULE FOR SPINNING.—P. J. Kent and J. W. Bancroft Worcester, assignors to themselves, J. R. Kent, and J. N. W. Bancroft, Worcester, assignors to themselves, J. R. Kent, and J. 105,813.—Valve for Steam and Other Pumps.—Lucius J. Knowles, Worcester, Mass.

105,814.—STALL FOR PREVENTING CRIBBING.—John Kraus (assignor to himself and Henry Lapp), Clarence, N. Y. 105,815.—SPINNING MACHINE.—W. La Banister and L. V. Doggett, Pacific, Wis. 105,816.—HEATING STOVE.—Silas Hoffman La Rue, Allen-105,817.—PIPE COUPLING.—William A. Lighthall, New York 105,818.—FAUCET.—J. H. Lord, San Francisco, Cal. 105,819.—Vapor or Gas Burner.—John C. Love, Philadel-phia,Pa.
105,820.—Shuttle for Sewing Machines.—Lucius Lyon, New York city. 105,821.—HORSE COLLAR.—C. K. Marshall, New Orleans, La., 105,521.—HORSE COLLAR.—C. K. Marshall, New Orleans, La., assignor to the climax Horse Collar Co., New York city.
105,822.—COMBINED HAIR CURLER AND CRIMPER.—Elisha Matteson (he having assigned two thirds of his right to Abraham Hoagland), Jersey City, N. J.
105,823.—PROCESS OF COATING OBJECTS WITH COLLODION AND ITS COMPOUNDS.—John A. McClelland, Louisville, Ky. Antedated July 22, 1810.
105,824.—TURNING DEVICE.—Wm. H. McMillan and David Mortle (assignors to Morris Tasker & Co.). Philadelphia. Pa. Morris (assignors to Morris, Tasker & Co.), Philadelphia, Pa. 105,825.—HAND CORN SHELLER.—W. A. Middleton, Harrisburgh, Pa. 105,826.—WEATHER BOARD SCRIBE.—Abraham Miller and Uriah Faris. Red Rock township, Iowa.
105,827.—WRENCH.—C. H. Miller (assignor to himself and M. Dell), Buffalo, N. Y. -WEATHER BOARD SCRIBE.—Abraham Miller and 105.828.—CULTIVATOR.—Isaac Miller, Worth, Mich. 105.829.—AWNING FOR CARS, ETC.—J. H. Monce, New York 105,830.—Thawing Device for Hydrants and Fire Plugs.—J. C. Moore, Philadelphia, Pa. Antedated July 16, 1870. 105,831.—Washing Machine.—H. J. Moreland, Whitehall, 111. 105,832.—Wagon-seat Fastening.—Fred Norris, Freedom Plains, N. Y. 105,833.—Horse Hay Rake.—Sherman R. Nye, Barre, 105,834,—Telegraph Insulator.—Samuel Oakman, Boston, 105,835.—Show Case for Ribbons, etc.—Geo. W. Pagett. Oxford, Ind.

105,836.—MANUFACTURE OF HOLLOW FELTED ARTICLES.—

R. Belman Lynn, and Charles Houghton Bosto C. W. Palmer and H. E. Palmer, Lynn, and Charles Houghton Boston, Mass., assignors to Charles Houghton.

105,837.—HAY LOADER.—Isaac J. Parker, Buffalo Grove, 105,838.—Spade and Shovel.—John W. Pearce, Suisun, 105.839.—Cylinder for Mixing Fertilizers.—Leman B. Pitcher, Salina, N. Y.

105,840.—MORTAR MILL.—Leman B. Pitcher, Salina, N. Y.

105,841.—STEAM ENGINE GOVERNOR.—Wm. H. Place, New York city. 105,842.—Washing Machine.—Daniel B. Pond, Woonsocket, Ř.;I. 105,843.—Plow.—Samuel W. Pope, Louisville, Ky. 105,844.—Subsoil Plow.—Elam M. Query, Harris Depot, 105,845.—Brake for Wagons. — Henry Racine, Paola Kansas. 105.846.—Machine for Pressing Seams and Cutting WELTS FOR BOOTS AND SHOES.—Edwin Reed, Kingston, Mass. 105,847.—STEAM GOVERNOR.—A. F. Reeder, Normal, Ill. 105,848.—Sawing Machine.—Augustus Renetzky, Lincoln, 105,849.—Sulky Attachment to Plows.—J. H. Reynerson and John Worrel, Clayton, Ind. 105,850.—CABINET BEDSTEAD.—Andrew J. Roberts, Boston, 105,851.—CURING AND PRESERVING MEAT, ETC.—Adolphe Rock, New Orleans, La.
105,852.—TUCK-CREASING ATTACHMENT FOR SEWING MA-CHINES.-J. B. Safford, San Francisco, Cal. 105,853.—SPRING BED BOTTOM.—M. Van Buren Shepard, Chicago, Ill. 105,854.—Spring Curtain Fixture.—John Shorey, Lowell, Mass. Antedated July 13, 1870.

105,855.—Type. Setting Machine.—John T. Slingerland, New York city. 105,856.—Pantaloons.—T. E. Sloan, Brooklyn, N. Y. 105,857.—Safety Measuring Funnel.—F. H. Smith, Burke, 105,858.—Machine for Ditching and Hedging.—William

105,859.—MACHINE FOR DITCHING AND HEDGING.—WHITAM Stacy, Hardin county, Iowa. 105,859.—CIGAR MACHINE.—G. W. Tanner and F. D. Bliss, Providence, R. I. 105,860.—CHUCK.—S. P. M. Tasker, Philadelphia, Pa. 105,861.—DIE STOCK.—Stephen P. M. Tasker, Philadelphia,

Pa.
105,862.—MECHANISM FOR RETAINING, ADJUSTING, AND
SEWING PARASOLS.—W. J. Tate (assignor to Wm. A. Drown & Co.),
Philadelphia, Pa.

Proceedings of Parasols Proceedings of Control Parasols Parasols Parasols Proceedings of Parasols Paras 105,863.—RAILROAD RAIL SPLICE.—G. O. Taylor, Hamilton, 105,864.—Hot AIR FURNACE.—George G. Thomas, St Louis, 105,865.—CORN MARKER.—Jesse B. Thomas, Centreville, 105,866.—Grain Drill.—John H. Thomas, Springfield, Ohio. 105,867.—LAMP.—G. W. Thompson, Buffalo, N. Y. -CLAMP FOR BRIDGES.-Lucius E. Truesdell, Chicago, Ill. 105,869.—CARPENTERS' PLANE.—C. E. Tucker (assignor to himself and T. L. Appleton), Boston, Mass. 105,870.—MACHINE FOR MOTIVE POWER.—Horace Wickham, or, Chicago, III. 105,871.—Curtain Fixture.—John H. Wilhelm, Chicago, 105.872.—CORN SHEILER.—John B. Wolford, Lancaster, 105,873.—MACHINE FOR NICKING SCREW BLANKS.—Aurin 105,873.—MACHINE FOR MICKING SCREW EDLANGS.—AUTH Wood, Wordester, Mass.
105,874.—PERCUSSION CAP.—B. F. Woodside, McDonald Station, Tenn. Antedated July 15, 1876.
105,875.—CANDLESTICK.—Henry Zahn, San Francisco, Cal. 105,876.—CARRIAGE STEP.—W. W. Knowles, Plantsville,

REISSUES.

4.078.—MECHANICAI. MOVEMENT.—H. J. Case, Nelson Chapin, and Charles Richardson, Adpura, N. Y., assignees of H. J. Case.—Patent No. 89.026, dated April 20, 1869.
4,079.—PAPER-FOLDING MACHINE.—C. Chambers, Jr., Phila-105,800.—LOCK SPINDLE.—J. L. Hall, Cincinnati, Ohio.

105,801.—Carriage Axle.—William N. Hall, Springfield, Texas.

105.802.—Machine for Sharpening Reaper Knives.—C. C. Hardy, Ruthand, N. Y.

105,803.—Earth Closet.—George Baker Jewett, Salem, Mass.

105,804.—Saw Mill.—Philip Jobson and M. C. Jobson, Lockhaven, Pa.

105,805.—Machine for Bending Corrugated Metal Plates.—Asa Johnson, Brooklyn, N. Y.

105,805.—Machine for Bending Corrugated Metal Plates.—Asa Johnson, Brooklyn, N. Y.

DESIGNS.

4,257.—'TRADE MARK.—John Adams, Birmingham, Pa. 4,258.—CARPET PATTERN.—James Allinson (assignor to Jas. Bromley & Bros.), Philadelphia, Pa. 4,259.—LAMP.—J. S. Atterbury and T. B. Atterbury, Pitts-burgh Pa.

4,259.—LAMP.—J. S. Atterbury and T. B. Atterbury, Fittsburgh, Pa. 4,260.—Jelly Glass.—Wm. Doyle, Birmingham, Pa. 4,261.—Glass Ware.—W. M. Kirchner, Pittsburgh, Pa., as signor to the National Glass Co., Bell Aire, Ohio. 4,262.—CORN HUSKER.—A. T. Morris, Nevada, Ohio. 4,263.—Glass Ware.—John Oesterling, Wheeling, West Va.

4,264.—TIP OF A SWORD SCABBARD.—Virgil Price, New York city.
4,265.—SWORD GUARD.—Virgil Price, New York city.
4,266.—TRADE MARK.—H. C. Rogers, Village of Sauquoit,

raris, N. Y. 267.—TYPE.—Richard Smith, Philadelphia, Pa., assig no to MacKellar, Smiths & Jordan.

Inventions Patented in England by Americans,

[Compiled from the "Journal of the Commissioners of Patents."]

PROVISIONAL PROTECTION FOR SIX MONTHS.

1.657.—PRINTING TELEGRAPH APPARATUS.—E. W. Andrews, Englewood. N. J., and G. B. Field, New York city. June 8, 1870.

1,661.—WOVEN AND KNITTED FABRICS AND YARNS.—Louis Robbins, New York city, and John Southmayd, Elizabeth, N. J. June 8, 1870. 1,675.—STEAM BOILERS.—J. B. Root, New York city. Jane 9, 1870.

1,680.—Machinery for Raising Sunken Ships, etc.—J. T. Parlour, New York city. June 10, 1870.

1,687.—Embroidering Attachment for Sewing Machines.—N. Wheeler New York city. June 11, 1870. 1,708.—FORMING BATS OF WOOLFOR FELTING PURPOSES .-- John Falconer,

New York city. June 14. 1870. 1,716.-FERTILIZER.-D. A. Ter Hoeven, Philadelphia, Pa. June 15, 1870.

1,769.—Apparatus for Forming Heels for Boots and Shoes, etc.—H. H. Bigelow, Worcester, Mass. June 15, 1870.

1,733.- As Burners.-F. C. Krause, New York city. June 17, 1870 1,766.—SOAP MAKING.—M. Hyde and Francis Hyde, Baltimore, Md. June 21, 1870.

1,721.-STEEL WASHERS.-W. Butcher, Philadelphia, Pa., and G. W. Billings, Chicago, Ill. June 16, 1870.

1.726.-PAINT BRUSHES.-J. J. Lowerre, Brooklyn, N. Y. June 16. 1870. 1,764.—RIGGING FASTENINGS.—W. C. Ireland, Boston, Mass. June 21, 1870.

1,784.—APPARATUS FOR MAKING BESSEMER STEEL.—A. L. Holley, Brooklyn, N. Y. June 22, 1870. 1,801.—Distrilline Alconelic Liquors.—S. F. Van Choate, Boston, Mssa June 24, 1870.

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